Deploying the Nexus Operator in OpenShift can be approached in several ways, depending on your environment, preferences, and requirements. Here are some common deployment strategies:

### 1. ****Using OpenShift OperatorHub****

* **Steps:**
  1. Log in to the OpenShift Web Console.
  2. Navigate to the OperatorHub.
  3. Search for "Nexus" or "Nexus Repository Operator".
  4. Install the Nexus Operator from the OperatorHub.
  5. Once installed, create a Nexus Repository Custom Resource (CR) to deploy Nexus.

### 2. ****Using Helm Charts****

* **Steps:**

helm repo add sonatype https://sonatype.github.io/helm3-charts/

helm repo update

Deploy Nexus using Helm:

helm install nexus sonatype/nexus-repository-manager

* 1. Ensure the Helm chart is compatible with OpenShift by adjusting security contexts and permissions as needed.

### 3. ****Using Custom YAML Manifests****

* **Steps:**
  1. Create a YAML file for the Nexus deployment, service, and persistent volume claims (PVCs).

oc apply -f nexus-deployment.yaml

* 1. Customize the deployment specifications according to your requirements (e.g., resource limits, storage configuration).

### 4. ****Using OpenShift Templates****

* **Steps:**
  1. Create an OpenShift template for the Nexus deployment.

oc process -f nexus-template.yaml | oc apply -f -

### 5. ****Using OpenShift Pipelines (Tekton)****

* **Steps:**
  1. Define a Tekton Pipeline for the Nexus deployment.
  2. Apply the Pipeline YAML and run the pipeline to deploy Nexus:

oc apply -f nexus-pipeline.yaml

tkn pipeline start nexus-deployment-pipeline